## PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 85/TY00N02/WO	FOR FURTHER ACTION		Form PCT/ISA/220 here applicable, item 5 be	elow.
International application No.	International filing date (day/mon	th/year) (Ea	rliest) Priority Date (day/r	nonth/year)
PCT/IB2005/000225	31/01/2009	5	13/02/2	004
Applicant				
				•
TOYOTA JIDOSHA KABUSHIKI	KAISHA		· · · · · · · · · · · · · · · · · · ·	
This International Search Report has bee according to Article 18. A copy is being to	n prepared by this International Sea ansmitted to the International Burea	arching Authority a	and is transmitted to the	applicant
This international Search Report consists	of a total of 4 sl	heets.		
	a copy of each prior art document	•		
Basis of the report     a. With regard to the language, the language in which it was filed, un	international search was carried ou less otherwise Indicated under this	ut on the basis of t item.	he international applicatio	n in the
The international this Authority (Ru	search was carried out on the basi le 23.1(b)).	s of a translation o	of the international applica	ition fumished to
b. With regard to any nucle	otide and/or amino acid sequenc	e disclosed in the	international application,	see Box No. I.
2. Certain claims were fou	ind unsearchable (See Box II).			•
3. Unity of invention is lac	king (see Box III).			
4. With regard to the <b>title</b> ,			<b></b>	
X the text is approved as si	ubmitted by the applicant.		, in the second of the second	
the text has been established	shed by this Authority to read as fol	lows:		
			•	
•				
••		÷		<i>:</i>
		•		•
	•			•
5. With regard to the abstract,	•		·	
X the text is approved as si	ubmitted by the applicant.			
	shed, according to Rule 38.2(b), by om the date of mailing of this intern			
6. With regard to the <b>drawings</b> ,				
	published with the abstract is Figure			
a. the lighte of the drawings to be partially as suggested by	•		•	
	is Authority, because the applicant	failed to suggest a	i ficure.	
	is Authority, because this figure be			·.
	e published with the abstract.	wi dimindololled (	.,	

#### INTERNATIONAL SEARCH REPORT

International Application No
P\_\_/IB2005/000225

A. CLASSIFICATION OF SUBJECT MATTER .
IPC 7 F01P3/20 F01P3 F01P7/16 B60K6/04 F02D17/02 F02D13/06 F02B75/22 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) B60K F02D F02B F01P Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category \* Relevant to claim No. PATENT ABSTRACTS OF JAPAN 1-3,6,7,vol. 2000, no. 06, 11,12 22 September 2000 (2000-09-22) & JP 2000 073763 A (NISSAN MOTOR CO LTD). 7 March 2000 (2000-03-07) abstract; figures EP 0 928 886 A (MODINE MANUFACTURING 1-3,6,7,COMPANY) 14 July 1999 (1999-07-14) 11,12 paragraphs '0014! - '0021!; figure 1 PATENT ABSTRACTS OF JAPAN 1-3,6,7,vol. 1998, no. 14, 11,12 31 December 1998 (1998-12-31) & JP 10 252464 A (TOYOTA MOTOR CORP), 22 September 1998 (1998-09-22) abstract; figures Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: \*T\* later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not cited to understand the principle or theory underlying the considered to be of particular relevance invention "E" earlier document but published on or after the International." "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to \*L\* document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docu-O document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled other means in the art. "P" document published prior to the international filing date but later than the priority date claimed \*&\* document member of the same patent family Date of the actual completion of the international search Date of mailing of the International search report 31/05/2005 23 May 2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Luta, D Fax: (+31-70) 340-3016

## INTERNATIONAL SEARCH REPORT

International Application No
F /IB2005/000225

C.(Continus	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category •	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
·	WO 02/079621 A (RENAULT S.A.S; VIDAL, NICOLAS; YU, ROBERT) 10 October 2002 (2002-10-10) page 9, line 11 - page 15, line 21; figures	1-3,9-12
	US 4 436 060 A (TANAKA ET AL) 13 March 1984 (1984-03-13) column 1, lines 26-33 - column 3, lines 33-64; figure 2	4,8
	US 2002/174840 A1 (LUCKNER JORG ET AL) 28 November 2002 (2002-11-28) paragraphs '0032! - '0036!; figures 4,5	4-7
•		·
		·
	- -	
!		
-		
•		
•		
•		
· .		
		·
•		
	• •	

### INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

P. /IB2005/000225 Patent document **Publication** Patent family **Publication** cited in search report date member(s) date 07-03-2000 NONE JP 2000073763 EP 0928886 14-07-1999 US 6124644 A 26-09-2000 AT 263311 T 15-04-2004 BR 9908666 A 21-11-2000 CA 13-07-1999 2257785 A1 CN 1228378 A 15-09-1999 DE 69915896 D1 06-05-2004 DE 69915896 T2 10-03-2005 EP 0928886 A2 14-07-1999 NONE JP 10252464 22-09-1998 Α WO 02079621 10-10-2002 FR Α 2815402 A1 19-04-2002 EP 1362168 A1 19-11-2003 WO 02079621 A1 10-10-2002 US 4436060 13-03-1984 JP 56115521 U 04-09-1981 A 3102628 A1 DE 21-01-1982 US 2002174840 28-11-2002 A1 DE 10127219 A1 28-11-2002 JP 2002364364 A 18-12-2002